

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640158

Luminaire Tested: GWS-SA5D-735-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-5MQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

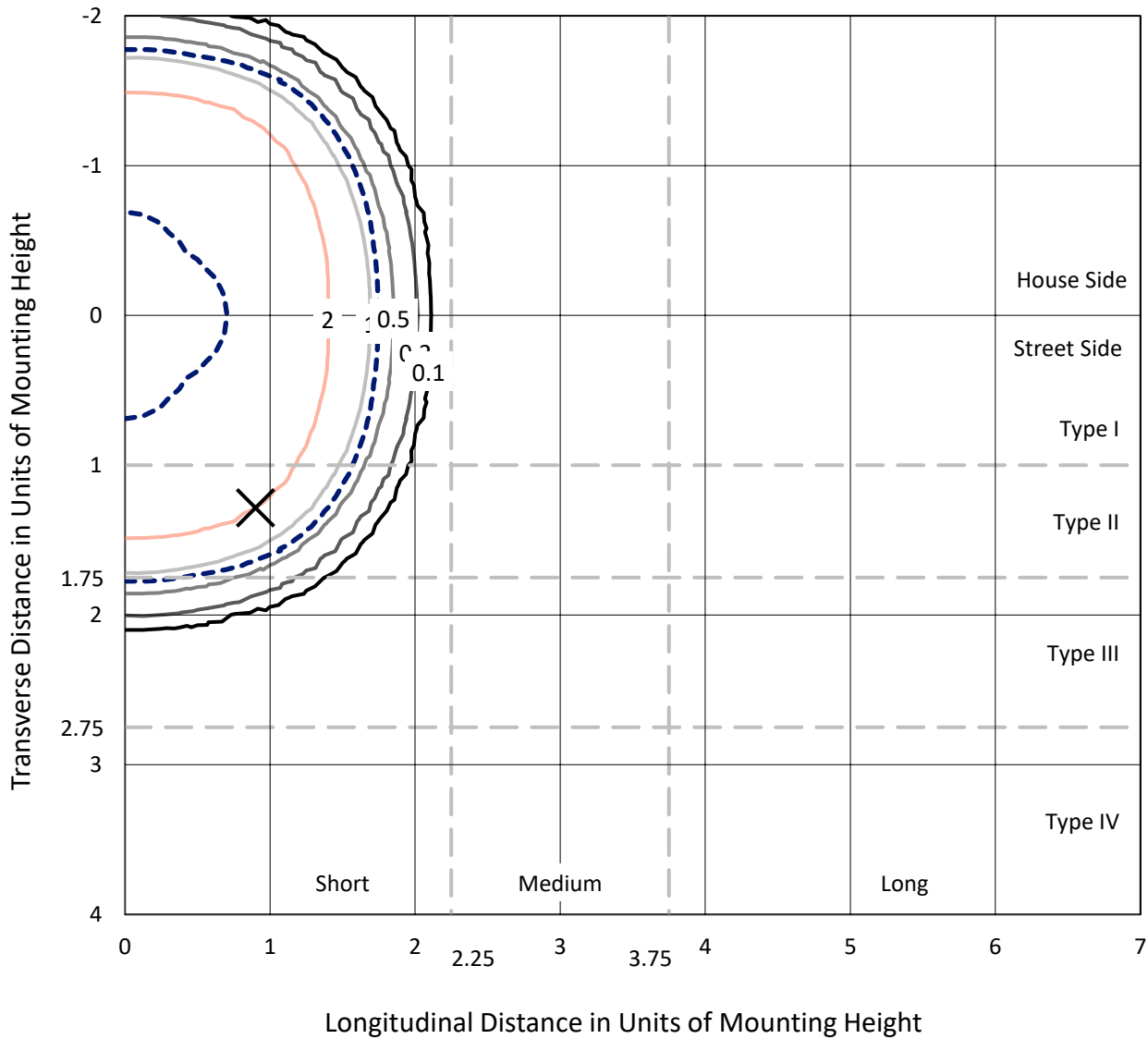
Lumens per Lamp: N/A  
Luminaire Lumens: 18103.1 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

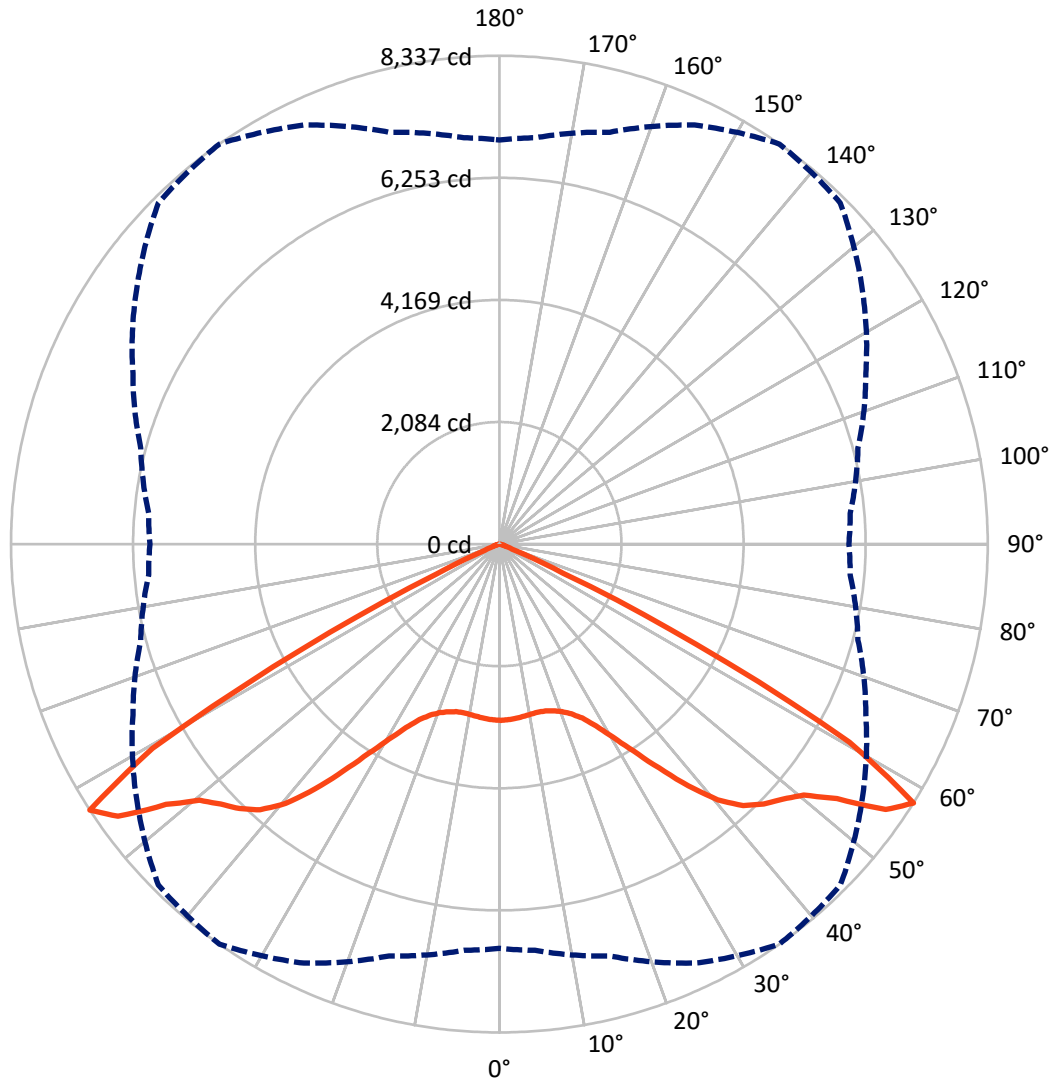
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9051.5	0.0	9051.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9051.5	0.0	9051.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18103.1	0.0	18103.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	1.6
10°-20°	834.1	4.6
20°-30°	1507.8	8.3
30°-40°	2812.9	15.5
40°-50°	4718.6	26.1
50°-60°	6231.4	34.4
60°-70°	1654.9	9.1
70°-80°	58.8	0.3
80°-90°	1.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18103.1	100.0
0°-180°	18103.1	100.0

**Coefficient of Utilization**



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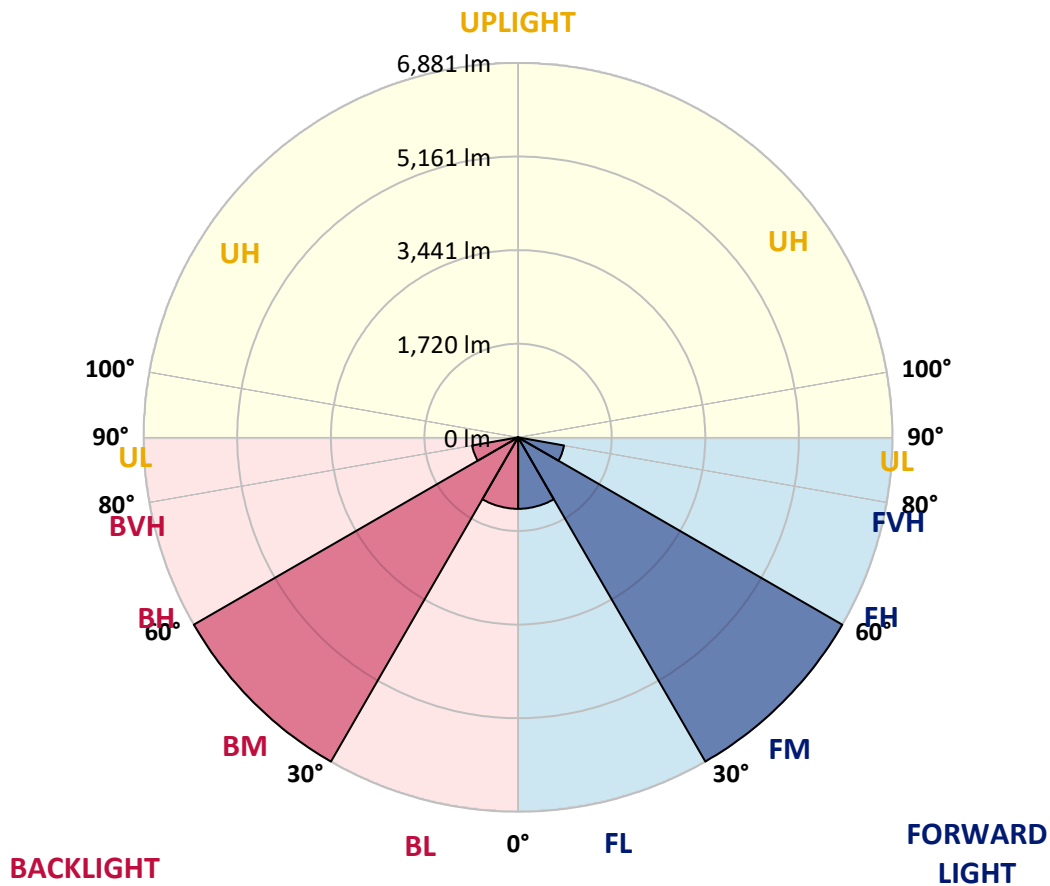
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.7	7.3			
FM (30°-60°)	6881.4	38.0			
FH (60°-80°)	856.8	4.7			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1312.7	7.3	B3/2500		
BM (30°-60°)	6881.4	38.0	B4/8500		
BH (60°-80°)	856.8	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8
2.5°	2988.6	2986.4	2994.9	3001.3	3001.3	3016.2	3011.9	3007.7	3003.4	2997.1	3011.9
5°	2984.3	2982.2	2988.6	2992.8	2988.6	3001.3	2992.8	2984.3	2980.1	2971.6	2988.6
7.5°	2965.2	2967.3	2971.6	2975.8	2969.4	2980.1	2969.4	2956.7	2946.1	2937.6	2952.5
10°	2935.5	2937.6	2941.8	2950.3	2952.5	2967.3	2952.5	2929.1	2914.2	2901.5	2916.3
12.5°	2920.6	2922.7	2929.1	2939.7	2941.8	2960.9	2941.8	2907.8	2886.6	2871.7	2886.6
15°	2924.8	2929.1	2937.6	2950.3	2954.6	2973.7	2948.2	2903.6	2873.9	2854.7	2867.5
17.5°	2939.7	2944.0	2956.7	2977.9	2992.8	3011.9	2980.1	2922.7	2882.4	2854.7	2867.5
20°	2958.8	2965.2	2986.4	3020.4	3052.3	3086.3	3045.9	2967.3	2914.2	2880.2	2890.9
22.5°	3011.9	3018.3	3048.0	3092.6	3145.7	3188.2	3139.4	3039.5	2967.3	2922.7	2933.3
25°	3120.3	3126.6	3164.9	3222.2	3290.2	3345.4	3283.8	3158.5	3065.0	3014.1	3018.3
27.5°	3290.2	3296.6	3341.2	3421.9	3513.2	3591.8	3502.6	3356.0	3249.8	3190.3	3190.3
30°	3504.7	3513.2	3572.7	3681.0	3823.3	3927.4	3806.3	3627.9	3492.0	3411.3	3413.4
32.5°	3780.8	3772.3	3857.3	4006.0	4207.8	4345.8	4167.4	3950.8	3783.0	3670.4	3681.0
35°	4135.6	4133.4	4229.0	4430.8	4694.2	4859.9	4647.5	4367.1	4165.3	4050.6	4052.7
37.5°	4592.2	4590.1	4700.6	4919.3	5235.8	5373.9	5136.0	4851.4	4634.7	4524.3	4537.0
40°	5127.5	5114.8	5212.5	5422.7	5739.2	5828.4	5569.3	5339.9	5131.7	5061.7	5095.6
42.5°	5637.3	5609.7	5667.0	5858.2	6102.4	6115.2	5919.8	5762.6	5620.3	5565.1	5586.3
45°	6047.2	6026.0	6079.1	6189.5	6329.7	6266.0	6172.5	6123.7	6009.0	5949.5	5968.6
47.5°	6353.1	6353.1	6416.8	6484.8	6506.0	6389.2	6404.1	6404.1	6289.4	6195.9	6172.5
50°	6616.5	6635.6	6731.2	6801.3	6731.2	6582.5	6667.4	6650.5	6416.8	6229.9	6181.0
52.5°	7037.0	7056.2	7202.7	7298.3	7219.7	7073.1	7083.8	6871.4	6527.3	6306.4	6229.9
55°	7483.1	7529.8	7742.2	7997.1	7999.2	7848.4	7568.1	7192.1	6773.7	6533.6	6455.0
57.5°	6899.0	6962.7	7279.2	7893.0	8337.0	8232.9	7563.8	6903.2	6338.2	6011.1	5966.5
60°	4747.3	4857.7	5174.2	6013.2	6869.2	6909.6	6119.4	5378.1	4730.3	4326.7	4335.2
62.5°	2005.1	2117.7	2296.1	2986.4	3772.3	3821.2	3438.9	2907.8	2379.0	2088.0	2132.6
65°	471.5	503.4	556.5	826.3	1198.0	1253.2	1155.5	900.6	664.8	562.9	573.5
67.5°	206.0	210.3	199.7	212.4	263.4	269.8	261.3	229.4	216.7	220.9	220.9
70°	144.4	146.6	138.1	131.7	125.3	116.8	121.1	133.8	144.4	152.9	150.8
72.5°	89.2	91.3	93.5	93.5	87.1	78.6	82.8	91.3	93.5	95.6	93.5
75°	44.6	46.7	51.0	53.1	51.0	48.9	48.9	51.0	51.0	48.9	48.9
77.5°	8.5	10.6	14.9	17.0	17.0	17.0	17.0	17.0	19.1	17.0	17.0
80°	2.1	2.1	4.2	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	0.0	0.0	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)